

Special Issue

Design, Synthesis and Structure of Peptides

Message from the Guest Editors

Peptide chains are assembled in a simple modular fashion yet may possess an exceptionally high degree of chemical diversity. As a result, synthetic peptides have found a wide variety of applications. Beyond classical use as model systems for study of protein folding problem, synthetic peptides are now to be found in more application-oriented fields, such as the design of foldamers, biomaterials, drug delivery systems, and tissue regeneration scaffolds. Naturally occurring peptide hormones and host defense systems serve as useful templates for the development of novel agents targeting various diseases and medical conditions, such as chronic pain, cancer, microbial infection, and obesity. The increasing diversity of such potential applications has posed new challenges to the design, synthesis, and structural analysis of peptides and peptidomimetics. Scientists working in broad field of peptides are invited to submit original research and review articles on new synthetic approaches or solutions, characterization of unique structures or novel structural assemblies, and the design of peptides or peptidomimetics which address pharmacological obstacles of therapeutic application.

Guest Editors

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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